



**furnace pipe and fittings**

**N° 553**

**BUCKEYE**

UNION ROOFING & SUPPLY  
1601 1/2 E. 17th Ave. - COLUMBUS, OH

**FURNACE PIPE COMPANY**

**Factory**

**897 Ingleside Avenue  
COLUMBUS 8, OHIO**

**Office**

**43-45 Vine Street  
COLUMBUS 16, OHIO**



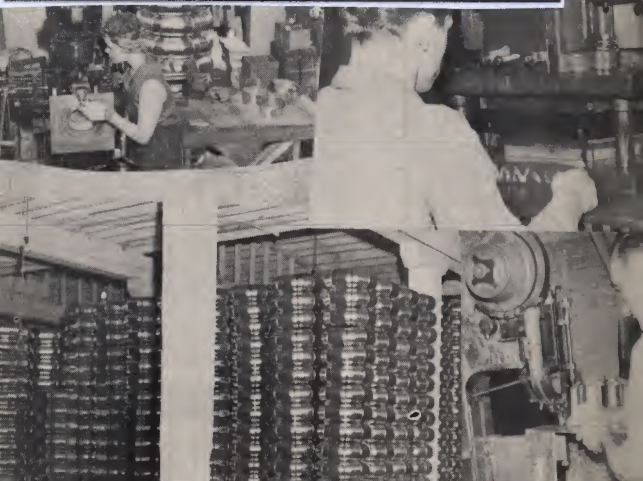
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# ✓ Check

## THE TIME SAVING

### FEATURES OF BUCKEYE PRODUCTS

We have provided the most modern production machinery and dies available to make quality fittings that are easily installed. You are assured of additional profits with the use of Buckeye products . . . produced to precision standards.

Prompt delivery service is facilitated by our proximity to all trucking lines who are thus able to make daily pick-ups easily and by the service from three railroads for carload shipments.





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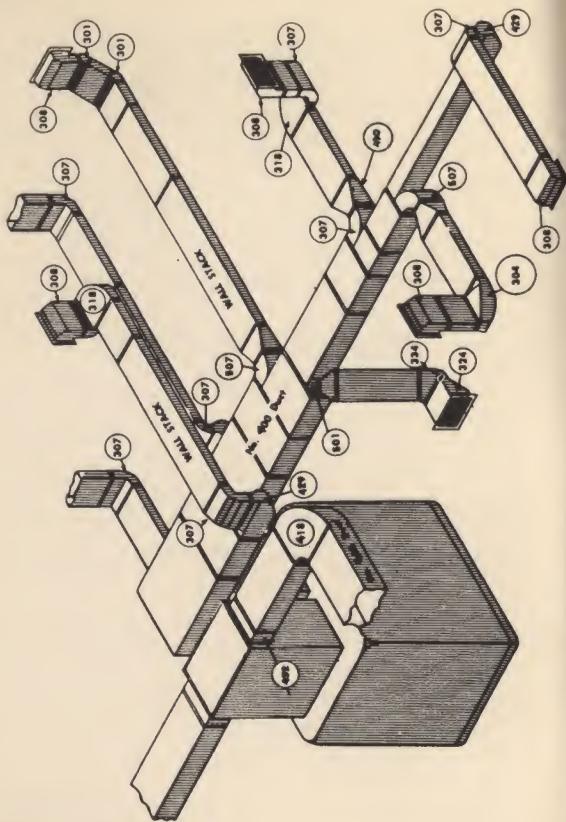
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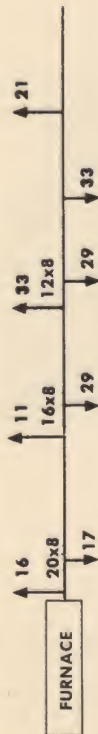
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# FORCED AIR SYSTEM USING DUCT AND RECTANGULAR FITTINGS

Trunk Design for 10°  
Reduction Method or  
Equal Friction Method



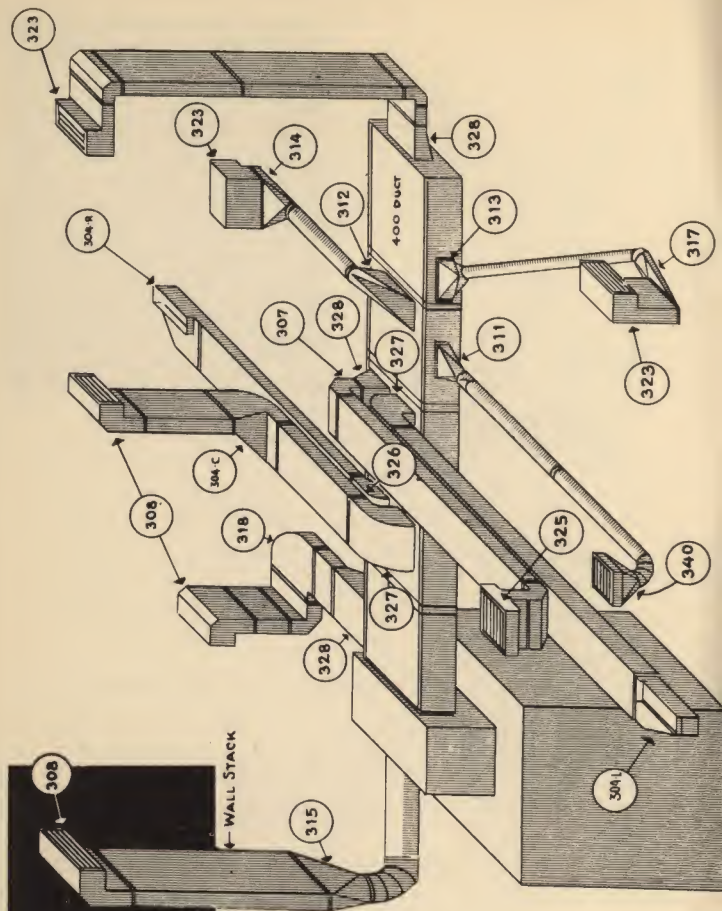


Branch Number	Room Name	Required Branch Area	ACCUMULATED AREA		Trunk Size	EXPLANATION
			Branch	Total		
1	Kitchen	21				
2	1/2 Living	29	21			
3	1/2 Base.	33	+29			
			+33			
4	1/2 Base.	33	83	83	12 x 8	96 Sq. Inches
			+33	116		Subtract 10%
				—12		
5	1/2 Living	29	104	104		
			+29	133		
				—13		Subtract 10%
6	Bath	11	120	120	16 x 8	128 Sq. Inches
7	Bedr.	17	+11	131		Don't reduce 10%
			+17	148		under 15 sq. inches
				—15		Subtract 10%
8	Bedr.	16	133	133		
			+16	149		
				—15		Subtract 10%
			134	134	20 x 8	160 Sq. Inches

## TRUNK DESIGN FOR 10% REDUCTION METHOD

This method, while not as precise as the equal friction method, is based upon the latter and is recommended as being more expedient and practical for the average forced-air residence installation.

# Extended Plenum System





# SIZING CHART

Requirements In B.T.U. For Room	W A R M   A I R					Register Size	R E T U R N   A I R		
	BRANCH SIZE		Stack Size	FORCED AIR REG. SIZES			Joist Space Branch Size		Round
	Rectan- gular	Round		Wall or Baseboard	Floor		Min. Cu. In. Required	Rectan- gular	
0 — 7000	10x3 1/4	6"	10x3 1/4	10x6	10x8	10x6	One 42	10x3 1/4	6"
7000 — 9000	12x3 1/4	7"	12x3 1/4	12x6	12x8	12x6	One 56	12x3 1/4	7"
9000 — 12000	14x3 1/4	8"	14x3 1/4	14x6	14x8	14x6	One 70	14x3 1/4	8"

Duct size calculations are simplified through use of Extended Plenum system. Determine the size per job (all 8" deep) as follows:

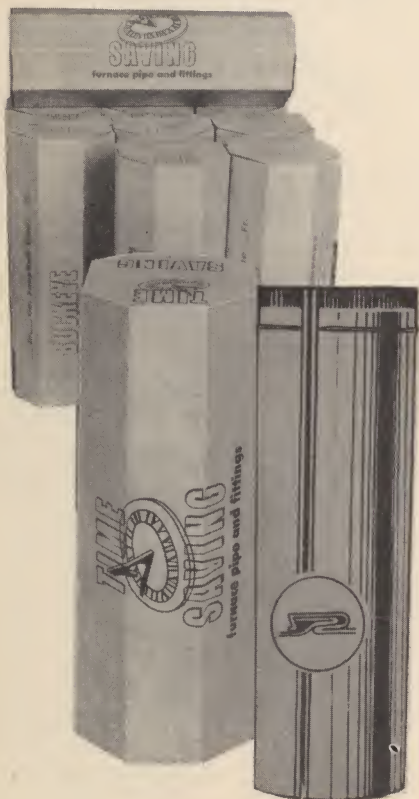
1. Determine B. T. U. requirements for each room by method recommended by the National Warm Air Heating & Air Conditioning Association (Manual 3 of Practical Warm Air Heating Code.)
2. For a simplified method of determining branch sizes, register sizes, etc., refer to the above sizing chart. Detailed sizing information will be found in Manual 7 of Practical Warm Air Heating Code published by the National Warm Air & Air Conditioning Association.
3. DUCT WIDTH = Number of branches  $\times$  2 plus an additional 2 inches.  
Example: If there are 6 branches, width will be  $6 \times 2 = 12 + 2 = 14'$
4. When using angles or elbows in trunk line add 1" for each angle and 2" for each elbow.

# Snap Lock PIPE

*finest in the market*

Dealers are saying, "Best yet".  
Lock snaps together easily and  
yet holds firmly under all their  
favorite tests . . . . .

The most practical and most at-  
tractive carton in use . . . . .  
conveniently stores . . with less  
lost space . . . . . is far the  
strongest carton obtainable.



Size Inches	30 Ga. Per Ft.
3	.24
4	.31
5	.37
6	.42
7	.50
8	.56
9	.61
10	.67
12	.81

24 inch joints

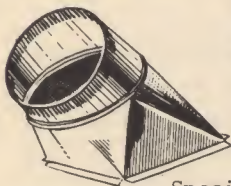
### ROUND PIPE,



Size Inches	30-Ga. Per ft.	26-Ga. Per ft.	24-Ga. Per ft.
3	.24	.28	
4	.31	.34	
5	.37	.41	.50
6	.42	.47	.59
7	.50	.56	.68
8	.56	.62	.76
9	.61	.69	.84
10	.67	.79	.95
12	.81	.89	1.10
14		1.24	
16		1.40	
18		1.67	
20		1.99	
22		2.37	
24		2.80	

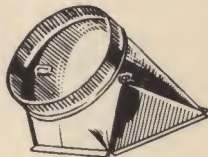
### ROUND BRANCH CONNECTIONS

**311** SIDE TAKE-OFF  
with adjustable collar



**312**  
TOP TAKE-OFF

**313**  
SIDE TAKE-OFF  
with damper



Specify Size of Both Openings

Size Inches	311 Side Take-Off	312 Top Take-Off	313 Side Take-Off
5 x 7 to 4	2.00	2.00	
6 x 8 to 6	2.00	2.00	2.00
7 x 10 to 7	2.25	2.25	2.25
7 x 12 to 8	2.75		2.75
8 x 10 to 8		2.75	

### ROUND BRANCH CONNECTIONS

Size, Inches	Price
4x8 - 6	1.45
4x8 - 7	1.50
5x8 - 7	1.55
6x8 - 8	1.60

**331**  
TRANSITION

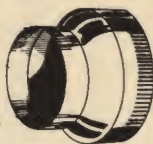


Transition from branch size to round pipe. Flat on one side. Has small type crimped collar.

4 to 6	1.10
6 to 8	1.20
7 to 9	1.40
7 to 10	1.40
8 to 12	1.56

**335**  
INCREASER

Adapter Collar for  
Forced-Air Conversion Work

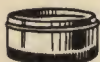


6 to 4	1.10
8 to 6	1.20
9 to 7	1.40
10 to 7	1.40
12 to 8	1.56

**336**  
REDUCER



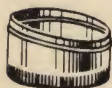
### COLLARS



**A** Collar  
Warm Air for Flat  
Surface Connection



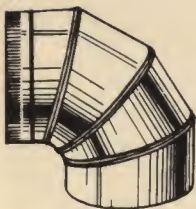
**A-1**  
Collar



**B**  
Pitched Collar

Size, Inches	A	A-1	B
4	.37		
6	.37		
7	.37		.60
8	.40		.60
9	.48		.70
10	.53		.75
12	.63		.91
14	.79		
16	1.01		
18	1.27		
20	1.49		
22	1.97		
24	2.29		

### ANGLES, ELBOWS



90° 4-pc. Galvanized Elbow



45° 3-pc. Angle



45° 2-pc. Angle

ELBOWS				ANGLES		
Inches	30-Ga.	26-Ga.	24-Ga.	30-Ga. 2 & 3 pc.	26-Ga. 2 & 3 pc.	24-Ga. 2 & 3 pc.
3	.63	* .68				
4	.75	* .81				
5	.86	.95	1.02	.71	.80	.81
6	.94	1.01	1.13	.77	.85	.90
7	1.05	1.15	1.29	.83	.90	.97
8	1.16	1.26	1.41	.89	.96	1.05
9	1.28	1.40	1.57	.94	1.02	1.10
10	1.42	1.56	1.75	1.03	1.15	1.26
12	1.73	1.95	2.21	1.23	1.35	1.50
14		3.59			2.06	
16		4.49			2.61	
18		5.74			3.24	
20		6.82			4.05	
22		7.62			4.50	
24		8.97			5.22	
* 28 gauge						



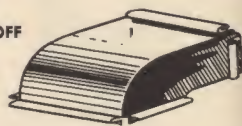
### RECTANGULAR BRANCH CONNECTIONS

Size, Inches	Price
4x8-10x3 $\frac{1}{4}$	2.10
5x8-12x3 $\frac{1}{4}$	2.40
6x8-14x3 $\frac{1}{4}$	2.70
10x6 $\frac{1}{2}$ -10x3 $\frac{1}{4}$	2.00
12x6 $\frac{1}{2}$ -12x3 $\frac{1}{4}$	2.25
14x6 $\frac{1}{2}$ -14x3 $\frac{1}{4}$	2.75
10x4 $\frac{1}{2}$ -10x3 $\frac{1}{4}$	2.35
12x4 $\frac{1}{2}$ -12x3 $\frac{1}{4}$	2.60
14x4 $\frac{1}{2}$ -14x3 $\frac{1}{4}$	2.75
10x6 $\frac{1}{2}$ -10x3 $\frac{1}{4}$	2.00
12x6 $\frac{1}{2}$ -12x3 $\frac{1}{4}$	2.25
14x6 $\frac{1}{2}$ -14x3 $\frac{1}{4}$	2.75
4x8-10x3 $\frac{1}{4}$	2.60
5x8-12x3 $\frac{1}{4}$	2.75
6x8-14x3 $\frac{1}{4}$	2.95

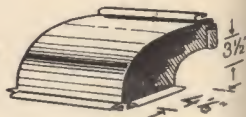
**330**  
STACK ADAPTER



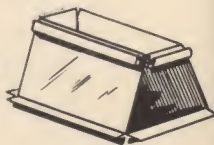
**326**  
TOP TAKE-OFF



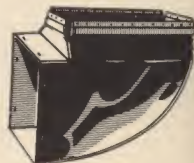
**327**  
TOP TAKE-OFF



**328**  
TOP OR SIDE  
TAKE-OFF



**329**  
TOP TAKE-OFF



**NOTE:** When duct is a few inches below joists to clear water pipes, etc., the 327 can be used as the underneath take-off and the 328 with a 307 elbow can be used as the over-top take-off, if both runs are in the same joist space

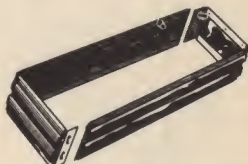
### WALL STACK



**ONE PIECE**  
Shipped 10 Joints.  
per Bundle



**TWO-PIECE WALL STACK  
WITH SNAPLOCK SEAM**  
Packaged 12 Joints per Carton



**STACK CONNECTOR**

Size Inches	Two-piece 2 ft. length 12 joints per carton	One-piece 2 ft. length 10 joints per bundle	Stack Connector
10x3 $\frac{1}{4}$	.82 per ft.	.82 per ft.	.32
12x3 $\frac{1}{4}$	.90 per ft.	.90 per ft.	.36
14x3 $\frac{1}{4}$	.96 per ft.	.96 per ft.	.40

### WALL STACK FITTINGS



**301**  
45° ANGLE

Size Inches	301 Angle	307 Elbow
10x3 $\frac{1}{4}$	1.10	1.62
12x3 $\frac{1}{4}$	1.35	1.79
14x3 $\frac{1}{4}$	1.80	2.32

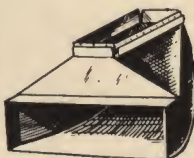


**307**  
90° Elbow

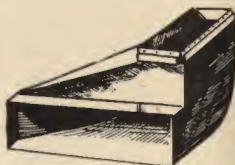
### WALL STACK FITTINGS



**304-L**  
LEFT ELBOW

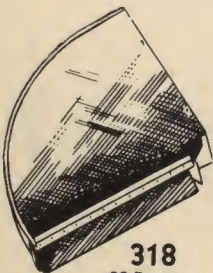


**304-C**  
CENTER ELBOW

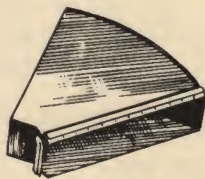


**304-R**  
RIGHT ELBOW

Size Inches	304 Elbow
10x3 $\frac{1}{4}$	3.25
12x3 $\frac{1}{4}$	3.67
14x3 $\frac{1}{4}$	4.29



**318**  
90-Degree  
Elbow



**334**  
Angle 45  
Degrees

Size Inches	318 Elbow	334 Angle
10x3 $\frac{1}{4}$	2.35	1.40
12x3 $\frac{1}{4}$	2.55	1.60
14x3 $\frac{1}{4}$	2.80	2.10

### FORCED AIR BOOTS

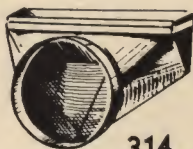
Size, Inches	302	314	315	317
10x3 $\frac{1}{4}$ to 4	1.70	1.85	1.70	1.85
10x3 $\frac{1}{4}$ -6" - 7" Rd.	1.70	1.85	1.70	1.85
10x3 $\frac{1}{4}$ -8" or 9" Rd.	2.05	2.15	2.05	2.20
12x3 $\frac{1}{4}$ -7" - 8" Rd.	1.85	2.10	1.83	2.10
12x3 $\frac{1}{4}$ -9" or 10" Rd.	2.30	2.35	2.30	2.40
14x3 $\frac{1}{4}$ -8" - 9" Rd.	2.00	2.45	2.00	2.45
14x3 $\frac{1}{4}$ -10" Rd.	2.50	2.80	2.50	2.80

BOOT COLLARS HAVE HEMMED EDGES



**302**

45° ANGLE BOOT



**314**

90° ANGLE BOOT



**315**

UNIVERSAL BOOT



**301**

45° ANGLE



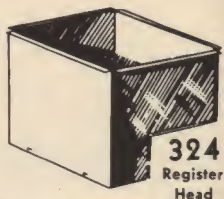
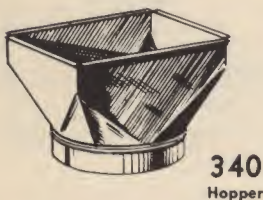
**317**

END BOOT

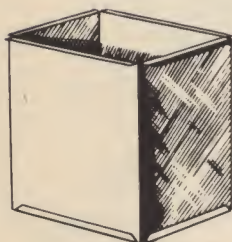
### GRAVITY BASEBOARD FITTINGS

Boot Collar Size	Throat Size	301 Angle	314 Boot	315 Boot	317 Boot
8	6 1/8 x 10	1.38	2.58	2.15	2.58
9	6 1/8 x 12	1.55	2.70	2.34	2.70
10	7 1/8 x 12	1.74	2.88	2.52	2.88
12	9 1/8 x 13	2.20	3.40	3.00	3.40
9	8 5/8 x 10	1.74	3.00	2.64	3.00
10	8 5/8 x 12	1.90	3.30	2.88	3.30
12	10 5/8 x 12	2.04	3.40	3.00	3.40

FIRST FLOOR  
**REGISTER BOXES**  
 FOR FORCED AIR AND  
 GRAVITY HEATING SYSTEMS



324 is used horizontally for Forced Air Systems where register is on same level as branch. Used vertically for Gravity Systems for floor registers on second floor.



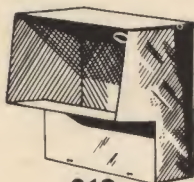
Register Size	Stack Size	324
10 x 6	10x3 $\frac{1}{4}$	1.68
10 x 8	"	1.68
12 x 6	12x3 $\frac{1}{4}$	1.83
12 x 8	"	1.83
14 x 6	14x3 $\frac{1}{4}$	2.18

\* Collar can be installed on any side or bottom, then box inserted from below and flanged to give desired depth.

Register Size Inches	Collar Size	Hopper 340	Deep Box 6" Deep 341	Deep Box 12" Deep 342
6x10	6"	2.00	2.00	2.50
8x10	7"	2.00	2.00	2.65
8x10	8"	2.00		
6x12	7"	2.00	2.00	2.65
8x12	8"	2.14	2.14	2.87
9x12	9"	2.20	2.20	2.95
10x12	10"	2.40	2.40	3.20
6x14			2.65	
12x14	12"	2.90	2.90	3.85

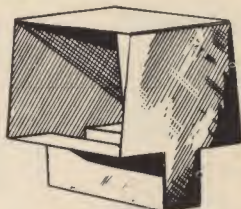


### BASEBOARD REGISTER BOXES



**319**

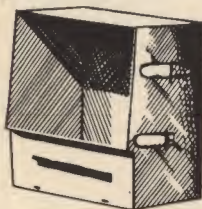
Second Floor Baseboard  
Register Box For One Register



**320**

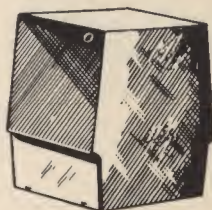
Second Floor Baseboard  
Register Box For Two Registers

Register Size Inches	Register Base Extension	Throat Size	319	320
8x10	2 $\frac{1}{4}$	10x3 $\frac{1}{4}$	1.90	2.05
8x12	2 $\frac{1}{4}$	12x3 $\frac{1}{4}$	2.15	2.30



**321**

First Floor Gravity Baseboard  
Register Box For One Register

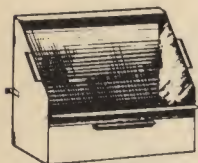


**322**

First Floor Gravity Baseboard  
Register Box For Two Registers

Register Size Inches	Register Base Extension	Throat Size	321	Throat Size	322
8x10	2 $\frac{1}{4}$	6 1/8x10	1.62	8 5/8x10	1.90
8x12	2 $\frac{1}{4}$	6 1/8x12	1.80	8 5/8x12	2.28
9x12	3 $\frac{1}{4}$	7 1/8x12	1.92	10 5/8x12	2.40
11x13	5 $\frac{1}{4}$	9 1/8x13	2.52	-	-

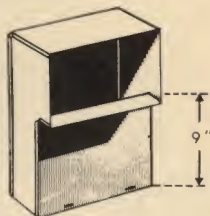
### STACK HEADS



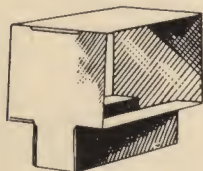
**305**  
Out of Wall  
Register Head



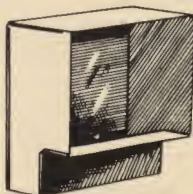
**308**  
Forced-Air Register Head For  
Baseboard, Wall or Ceiling



**309**  
For Forced Air or Gravity



**310**  
Register Head  
for Two Registers  
No. 310 is used in wall for  
Gravity installations. Not  
recommended for Forced-Air  
installations.



**323**  
Register Head  
Used for Gravity or Forced Air

Register Size	Stack Size	305	308	309	310	323
10x4	10x3 $\frac{1}{4}$		1.68	2.10		
10x5	"		1.68	2.10		
10x6	"	1.75	1.68	2.10	1.92	1.68
10x8	"		1.68	2.10	1.92	1.68
12x4	12x3 $\frac{1}{4}$		1.83	2.30		
12x5	"		1.83	2.30		
12x6	"	1.90	1.83	2.30	2.16	1.83
12x8	"		1.83	2.30	2.16	1.83
12x9	"		2.30	2.30		
14x4	14x3 $\frac{1}{4}$		2.18	2.68		
14x5	"		2.18	2.68		
14x6	"	2.30	2.18	2.68	2.48	2.18
14x8	"		2.18	2.68	2.48	2.18

### DRAWBANDS, DAMPERS

### TEE JOINTS, CAPS, THIMBLES

Size Inches	Tee Joint	Tee Cap	Flue Thimble
5		.90	.39
6	2.73	.90	.39
7	2.80	1.00	.42
8	3.20	1.10	.46
9	4.00	1.20	.50
10	4.80	1.30	.55
12		1.50	.65



FLUE THIMBLE



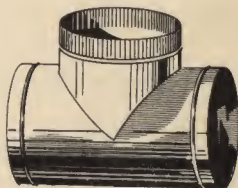
FLUE  
CLEANOUT CAP



Warm Air Damper with  
E-Z-on Regulator



Draw Band



TEE JOINT

Size Inches	Damper E-Z On	6" Drawbands 24 Ga.	6" Drawbands 26 Ga.
4	.80		.70*
5		.78	.70
6	.88	.78	.70
7	1.00	.92	.76
8	1.06	1.00	.81
9	1.10	1.06	.90
10	1.15	1.20	1.00
12	1.20	1.29	1.14
14			1.32
16			1.50
18			1.80
20			2.03
22			2.34
24			3.00

\* 4" Length

### SIDE RAIL

Size	300-A 5 ft.
6" Side Rail	1.80
8" Side Rail	2.00
10" Side Rail	2.50

Size	300-A Standard Package
6"	24.10
8"	26.10
10"	31.10



**300-A**

Made 6" — 8" — 10" deep.  
Ends formed for drive cleats.

**300-A**

Standard Package

includes: 10—5' Lengths Side Rail  
4—5' Lengths Flat "S" Strips  
16 Drive Cleats  
3—5' Lengths Rigid "S" Strips



**380**

"S" STRIPS



**381**

RIGID  
"S" STRIPS



**382**

CORNER "S" STRIPS

5 Foot Strips	
380	.55
381	.90
382	1.20
383	.40
384 8" Lengths	8.00 per 100



**383**

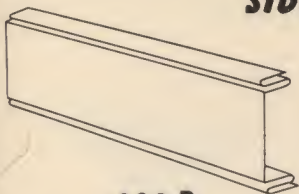
DRIVE CLEAT



**384**

DRIVE CLEAT

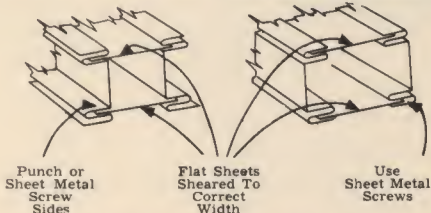
### SIDE RAIL



#### 300 B

Made 6" — 8" — 10" Deep x 96" Long. Formed so the standing "S" lock can be turned inside or outside of trunk.

Size	300-B 8 Ft.
6" Side Rail	2.24
8" Side Rail	2.56
10" Side Rail	3.20

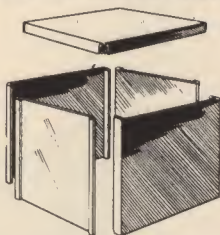


Punch or  
Sheet Metal  
Screw  
Sides

Flat Sheets  
Sheared To  
Correct  
Width

Use  
Sheet Metal  
Screws

### PLENUM CHAMBERS

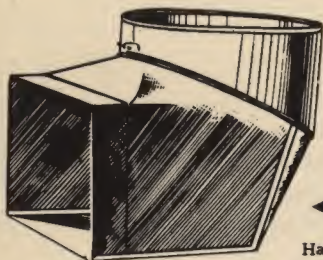


Plenum Height	Price per One Inch of Girth				
6" to 12"	.06 times Girth equals List Price*				
13" to 20"	.10	"	"	"	"
21" to 28"	.12	"	"	"	"
29" to 36"	.14	"	"	"	"
37" to 48"	.18	"	"	"	"
Over 48"	.22	"	"	"	"

\* Example: Plenum = 20 x 20 x 36"  
Girth = 20 + 20 + 20 + 20 = 80"  
List Price = 80 x .14 = \$11.20



### RETURN AIR SHOES

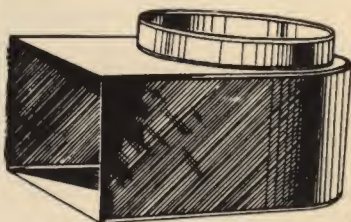


**345**

**ADJUSTABLE COLD AIR SHOE**

Has no corners to retard the even flow of air. This shoe fills nearly every requirement, often saves the expense of an elbow or angle.

Size	306	345
14"	7.75	7.75
16"	8.50	8.50
18"	9.85	9.85
20"	11.20	11.20
22"	12.80	12.80
24"	14.40	14.40



**306**

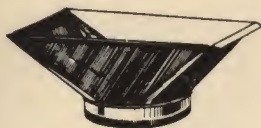
**COLD AIR SHOE**

Just the fitting to use when the furnace is close to a wall making it necessary to bring the return air straight down to the furnace.

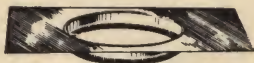
# BUCKEYE

FURNACE PIPE COMPANY

## TRANSITIONS AND CEILING PLATES



**T**  
TRANSITION HEAD



**J**  
JOINT LINING COLLAR FITTED  
WITH CEILING PLATE

Collar Size Inches	<b>T</b>	<b>T</b> Transition Head	<b>J</b>	<b>J</b> Ceiling Plates
14	14x30	5.30	16x34	3.05
16	16x30	5.75	18x34	3.30
18	18x30	6.25	20x34	3.50
20	20x30	7.20	22x34	3.75
22	22x30	8.15	24x34	4.10
24	24x30	9.15	26x34	4.60

## JOIST LINER

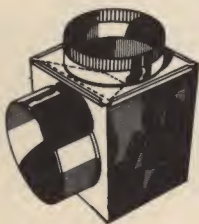


A popular labor-saving package of 50 lineal feet of Joist Liner made of 30 gauge aluminum coated steel in the size of 17" x 30".

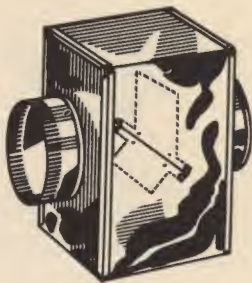
Per Carton - - - - \$13.57

### **DRAFT DIVERTERS**

To AGA Specifications



**HORIZONTAL  
TO  
VERTICAL**

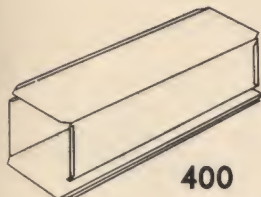


**HORIZONTAL**

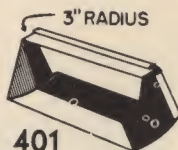
26 Gauge

Size Inches	Vertical	Horizontal
5	3.34	4.20
6	3.72	5.25
7	4.07	6.00
8	4.51	8.00
9	4.97	10.85
10	5.45	15.10
12	6.35	28.74

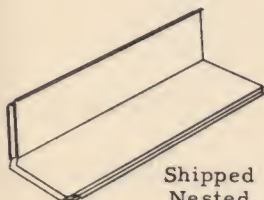
### BUCKEYE SERIES 400 DUCT SYSTEM



**400**  
DUCT



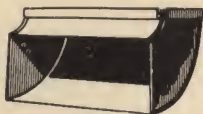
**401**  
45° Vertical Angle



Shipped  
Nested

Size Inches	16" Lengths	32" Lengths	401 Angle
4x8	1.34	2.16	1.55
6x8	1.50	2.42	2.00
8x8	1.66	2.68	2.20
10x8	1.82	2.94	2.35
12x8	1.98	3.20	2.50
14x8	2.14	3.46	2.70
16x8	2.30	3.74	2.85
18x8	2.46	4.02	3.12
20x8	2.62	4.30	3.37
22x8	2.78	4.58	3.60
24x8	2.94	4.86	3.87
26x8	3.10	5.14	4.35
28x8	3.26	5.42	4.95
30x8	3.42	5.70	5.50
32x8	3.58	5.90	5.90

### BUCKEYE SERIES 400 DUCT SYSTEM



**407**  
90° Vertical Elbow



**434**  
45° Horizontal Angle



**418**  
90° Horizontal Elbow

Size Inches	407 Elbow	418 Elbow	434 Angle
4x8	2.08	2.10	1.55
6x8	2.65	2.35	1.85
8x8	2.90	2.75	2.18
10x8	3.10	3.12	2.33
12x8	3.33	3.35	2.54
14x8	3.58	3.58	2.70
16x8	3.83	3.90	2.95
18x8	4.15	4.33	3.25
20x8	4.50	4.85	3.65
22x8	4.83	5.79	4.33
24x8	5.15	6.60	4.95
26x8	5.83	7.50	5.60
28x8	6.58	8.75	6.58
30x8	7.33	10.20	7.65
32x8	7.90	10.95	8.20

NOTE: We will supply price quotations on duct to your specifications in sizes other than those shown above.



### BUCKEYE SERIES 400 DUCT SYSTEM

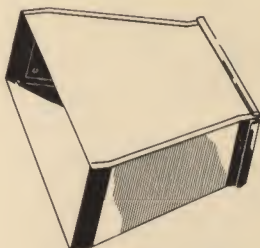
Rectangular Duct and Trunk  
Fittings of Standard 8" Depth



**470**

**End Cap**

Standard 8" depth. Used  
for closing open ends of  
duct.



**461**

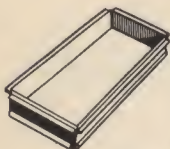
**Center Increaser**

Reducers supplied in same sizes  
INCREASERS will be furnished unless  
otherwise specified.

Increaser or reducer made in 16"  
length. Give dimensions of both  
ends. Price is always based on  
the dimension of the larger end.

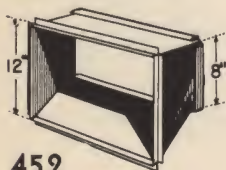
Size Inches	470 End Cap	Size Inches	461 Increaser or Reducer
4x8	.76		
6x8	.78	6x8 to 10x8	2.24
8x8	.82	8x8 to 12x8	2.74
10x8	.83	10x8 to 14x8	2.90
12x8	.85	12x8 to 16x8	3.06
14x8	.88	14x8 to 18x8	3.22
16x8	.92	16x8 to 20x8	3.38
18x8	.96	18x8 to 22x8	3.54
20x8	1.00	20x8 to 24x8	3.70
22x8	1.04	22x8 to 26x8	3.86
24x8	1.08	24x8 to 28x8	4.02
26x8	1.12	26x8 to 30x8	4.18
28x8	1.17	28x8 to 32x8	4.34
30x8	1.21	30x8 to 34x8	4.50
32x8	1.25	32x8 to 36x8	4.66

### BUCKEYE SERIES 400 DUCT SYSTEM



**450**  
Collar

4" long—with Flange for attaching to Plenum. Connection is included with each collar.



**452**  
Collar

12" long. Plenum end, 12" deep, with Flange for attaching to Plenum. Connection is included with each collar.

Size Inches	450 Collar	451 452 Collar
4x8	.80	1.90
6x8	.95	2.18
8x8	1.05	2.44
10x8	1.15	2.70
12x8	1.20	2.95
14x8	1.30	3.20
16x8	1.40	3.48
18x8	1.55	3.74
20x8	1.65	4.00
22x8	1.75	4.25
24x8	1.85	4.50
26x8	1.95	4.78
28x8	2.00	5.04
30x8	2.10	5.30
32x8	2.25	5.55

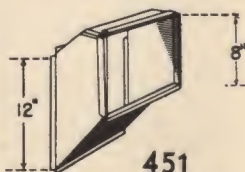
Size Inches	460 Incraser or Reducer
6x8 to 10x8	1.85
8x8 to 12x8	2.05
10x8 to 14x8	2.19
12x8 to 16x8	2.35
14x8 to 18x8	2.50
16x8 to 20x8	2.65
18x8 to 22x8	2.85
20x8 to 24x8	3.00
22x8 to 26x8	3.20
24x8 to 28x8	3.35
26x8 to 30x8	3.85
28x8 to 32x8	4.05
30x8 to 34x8	4.25
32x8 to 36x8	4.40



**460**

**Straight-Sided Incraser**

Reducers supplied in same sizes . . . INCREASERS will be furnished unless otherwise specified.



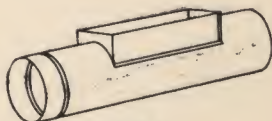
**451**

3" Vertical Offset  
7½" Make-up Length.

### OTHER PERIMETER & SMALL PIPE FITTINGS

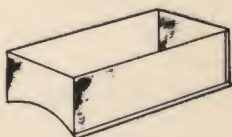
6" OR 8"

Size	200
2 $\frac{1}{4}$ x14	3.50
4x10	3.00
4x12	3.50
4x14	3.75



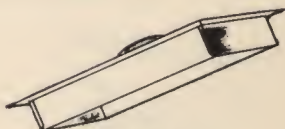
**200**  
24" Length  
Register Take Off

Size	243
2 $\frac{1}{4}$ x14	1.25
4x10	1.00
4x12	1.25
4x14	1.50



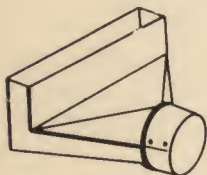
**243**  
Register Tee

Size	270
2 $\frac{1}{4}$ x14	1.15
4x10	1.25
4x12	1.25
4x14	1.35

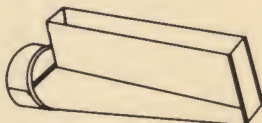


**270**  
Register Cap

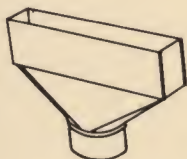
### OTHER PERIMETER & SMALL PIPE FITTINGS



**214**  
90° Angle Boot  
or Boot Box

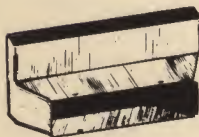


**217**  
End Boot  
or Boot Box



**215**  
Universal Boot  
or Boot Box

Boot Collar Size	Throat Size	214	215	217
4"	14x2 $\frac{1}{4}$	2.20	2.00	2.20
6"	14x2 $\frac{1}{4}$	2.20	2.00	2.20
8"	14x2 $\frac{1}{4}$	2.20	2.00	2.20



**254**  
Thermobase  
Angle Boot

Size	254
10x3 $\frac{1}{4}$ to 13 $\frac{1}{2}$ x2	2.10

## APPROXIMATE WEIGHTS BASED UPON 100 PIECES

### FLOOR REGISTER BOXES

Style No. 340.....	230 lbs.
Style No. 341.....	190 lbs.
Style No. 342.....	350 lbs.

### REGISTER HEADS

Style No. 308.....	160 lbs.
Style No. 309.....	180 lbs.
Style No. 310.....	200 lbs.
Style No. 319.....	200 lbs.
Style No. 320.....	200 lbs.
Style No. 321.....	200 lbs.
Style No. 322.....	220 lbs.
Style No. 323.....	160 lbs.
Style No. 324.....	140 lbs.

### WALL STACK BOOTS

Style No. 315.....	140 lbs.
Style No. 314.....	200 lbs.
Style No. 317.....	300 lbs.

### WALL STACK ELBOWS AND ANGLES

Style No. 301.....	100 lbs.
Style No. 303.....	220 lbs.
Style No. 304.....	220 lbs.
Style No. 305.....	220 lbs.
Style No. 307.....	120 lbs.
Style No. 318.....	220 lbs.
Style No. 334.....	160 lbs.

### WALL STACK (per 100 feet)

3 1/4 x 10.....	180 lbs.
3 1/4 x 12.....	220 lbs.
3 1/4 x 14.....	220 lbs.

### MISCELLANEOUS

6" Side Rail.....	80 lbs. per 100 ft.
8" Side Rail.....	90 lbs. per 100 ft.
10" Side Rail.....	100 lbs. per 100 ft.
Side Take-Off Fittings.....	140 lbs.
Top Take-Off Fittings.....	150 lbs.

## DUCT AND FITTINGS

(Based on 32" Jts. of Duct or 100 of each Fitting)

400 Duct 8x8 weighs.....	660 lbs.	for each additional 2" in width add 90 lbs.
401 Angle " ".....	188 lbs.	" " " " " " " 25 lbs.
407 Elbow " ".....	263 lbs.	" " " " " " " 37 lbs.
418 Elbow " ".....	263 lbs.	" " " " " " " 37 lbs.
434 Angle " ".....	188 lbs.	" " " " " " " 25 lbs.
450 Collar " ".....	110 lbs.	" " " " " " " 15 lbs.
451 Collar " ".....	238 lbs.	" " " " " " " 28 lbs.
452 Collar " ".....	238 lbs.	" " " " " " " 28 lbs.
460 { Reducer }.....	421 lbs.	
{ Increaser }.....		



### APPROXIMATE WEIGHTS BASED UPON 100 PIECES

### PIPE, ANGLES, ELBOWS, DRAWBANDS, TEE-JOINTS, RETURN AIR MATERIALS

Approximate Weights Based on 100 Ft. of Pipe or 100 of Each Fitting

Size	3	4	5	6	7	8	9	10	12	14	16	18	20	22	24
30 Ga. Pipe	56	72	90	106	124	142	158	176	210						
28 Ga. Pipe	168	99	109	130	156	172	192	211	250						
26 Ga. Pipe	-----	-----	125	148	172	196	220	245	291	338	387	433	479	528	575
24 Ga. Pipe	-----	-----	-----	192	222	251	279	310	371						
30 Ga. Angles	-----	-----	48	65	80	95	110	132	170						
28 Ga. Angles	-----	-----	60	90	100	126	150	170	220						
26 Ga. Angles	-----	-----	-----	-----	-----	-----	-----	-----	-----	313	390	470	575	633	775
24 Ga. Angles	-----	-----	-----	130	140	190	220	260	330						
30 Ga. Elbows	40	59	79	106	133	159	186	220	287						
28 Ga. Elbows	50	70	100	125	145	187	225	260	350						
26 Ga. Elbows	-----	-----	-----	-----	-----	-----	-----	-----	-----	570	725	850	1050	1288	1450
24 Ga. Elbows	-----	-----	130	172	222	266	333	386	515						
Drawband	-----	-----	-----	-----	-----	113	133	150	169	188	216	231	244	263	281
Tee Joint	-----	-----	-----	300	325	368	387	410	500						
Transition Head										525	550	590	630	645	665
Cold Air Shoe										700	800	1050	1200	2000	2500
Ceiling Plate										330	380	390	400	440	470

